

**REMARKS**

Claims 1-4, 6, and 7 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Seo et al. (US 5,825,437).

Claims 1, 4, 5, and 7 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Hong et al. (US 6,130,443).

Claims 1-4, 6, and 7 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Hwang (US 5,852,481).

Claims 15-20 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Hwang.

**Summary of the Response to the Office Action**

Applicants have amended claims 1 and 15 to further define the invention. Accordingly, claims 1-7 and 15-20 are pending for further consideration, with claims 8-14 being withdrawn from consideration.

**All Claims Define Allowable Subject Matter**

Claims 1-4, 6, and 7 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Seo et al. (US 5,825,437), claims 1, 4, 5, and 7 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Hong et al. (US 6,130,443), claims 1-4, 6, and 7 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Hwang (US 5,852,481), and claims 15-20 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Hwang. Applicants respectfully traverse these rejections as being based upon prior art references that neither teach nor suggest the novel combination of features recited in independent claims 1 and 15, as amended, and hence dependent claims 2-7 and 16-20.

Independent claim 1, as amended, recites “source, drain, and gate conductive lines are in direct electrical contact with a transparent electrode material, each of the conductive lines comprises a first metal layer formed from a first metal; and an alloy layer formed from an alloy of the first metal and another metal is disposed at an upper portion of the first metal layer.” Similarly, independent claim 15, as amended, recites “the gate electrode and the gate pad both include a first layer formed of a first metal and a second layer formed of an alloy of the first metal and a second metal disposed at an upper surface of the first layer directly contacting the transparent electrode material.”

In contrast to Applicants’ claimed invention, none of Seo et al., Hong et al., and/or Hwang teaches or suggest every feature of claims 1-7 and 15-20. For example, although Seo et al. teaches forming gate conductive lines 2a/3a, 2b/3b, and 2c/3c having a dual alloy structure, Hong et al. teach a drain electrode 630 having a triple alloy structure 621/622/633, and Hwang teaches a second gate electrode 210 having a triple alloy structure 112/113/114, Seo et al., Hong et al., and Hwang each fails to teach or suggest “source, drain, and gate conductive lines are in direct electrical contact with a transparent electrode material,” as recited by amended independent claim 1, or “an alloy of the first metal and a second metal disposed at an entire upper surface of the first layer directly contacting the transparent electrode material,” as recited by amended independent claim 15.

For at least the above reasons, Applicants respectfully submit that claims 1-7 and 15-20 are neither taught nor suggested by any of Seo et al., Hong et al., and Hwang. Applicants respectfully assert that the rejections under 35 U.S.C. §102(b) should be withdrawn because the above-discussed novel combinations of features are neither taught nor suggested by any of the applied references.

### **Conclusion**

In view of the foregoing, Applicants respectfully requests reconsideration and timely allowance of the pending claims. Should the Examiner believe that there are any issues outstanding after consideration of this response, the Examiner is invited to contact Applicants' undersigned representative to expedite prosecution.

If there are any other fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 50-0310. If a fee is required for an extension of time under 37 C.F.R. § 1.136 not accounted for above, such an extension is requested and the fee should also be charged to our Deposit Account.

Respectfully submitted,

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